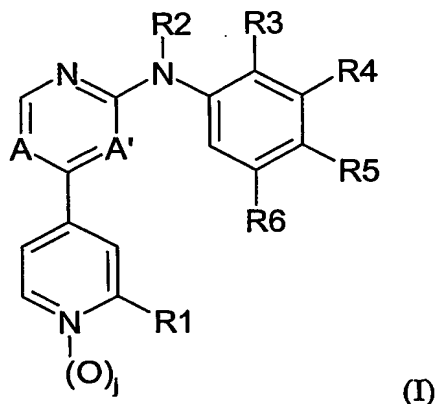


CLAIMS

1. A method of controlling and preventing an infestation of crop plants by phytopathogenic microorganisms, which comprises the application to the plant or parts of plants
 5 or to the locus thereof as active ingredient an N-phenyl-[(4-pyridyl)-aziny]-amine derivative of the formula I



wherein

A and A' are both N or A and A' are both CH or A is CH and A' is N;

10 j is 0 or 1

R₁ is

- a) hydrazino, that is unsubstituted or one- to threefold substituted by optionally substituted alkyl and/or optionally substituted acyl,
- b) cyclohexylamino, tetrahydro-4H-pyran-4-amino, pyrrolidine-3-amino, 2- or 3-tetrahydro-furylamino, all optionally substituted by amino, hydroxy, alkoxy, alkyl
 15 or alkoxyalkyl,
- c) piperazinyl that is optionally substituted by amino, amino-lower alkyl, hydroxy, alkoxy, alkyl or alkoxyalkyl,
- d) morpholinyl that is optionally substituted by amino, amino-lower alkyl, hydroxy,
 20 alkoxy, alkyl or alkoxyalkyl,
- e) amino or mono- or di-(lower alkyl)amino wherein the lower alkyl moieties are unsubstituted or substituted by one or more (preferably 1 to 3, especially 1 or 2) substituents independently selected from the group consisting of unsubstituted amino, N-mono- or N,N-di-(lower alkyl)-amino, (lower alkoxy)-lower alk-oxy,
 25 lower alkoxycarbonylamino, hydroxy-lower alkoxycarbonylamino, lower alkoxy-lower alkoxycarbonylamino, morpholinyl, hydroxy-lower alkylamino, cyano,

halogen, oxo, hydroximino, alkoximino, optionally substituted hydrazono, lower alkenyl, lower alkynyl, guanidyl, lower alkanoylamino, hydroxy-lower alkanoylamino, lower alkoxy-lower alkanoylamino, halo-lower alkanoylamino, lower alkylaminocarbonylamino, hydroxy-lower alkylaminocarbonylamino, lower alkoxy-lower alkylaminocarbonylamino, amidino, di-lower-alkylamino-cyclohexyl, carboxy, lower alkoxycarbonyl, hydroxy-lower alkoxycarbonyl, lower alkoxy-lower alkoxycarbonyl, lower alkylcarbonyldioxy (= lower alkoxycarbonyloxy), hydroxy-lower alkoxycarbonyloxy, lower alkoxy-lower alkoxycarbonyloxy, lower alkanoyloxy, halo-lower alkanoyloxy, hydroxy-lower alkanoyloxy, lower alkoxy-lower alkanoyloxy, carbamoyl, N-mono- or N,N-di-lower alkylcarbamoyl, N-(hydroxy-lower alkyl)carbamoyl, N-lower alkyl-N-hydroxy-lower alkyl-carbamoyl, N,N-di-(hydroxy-lower alkyl)-carbamoyl, N-hydroxy-carbamoyl, hydroxy, lower alkoxy, lower alkenyloxy, lower alkinyloxy, lower haloalkoxy, lower alkylthio, lower alkylsulfoxyl, lower alkylsulfonyl, lower alkoxysilyl, 4-tetrahydro-4H-pyranyl, 3-pyrrolidinyl, 2- or 3-tetrahydrofuryl, 2- or 3-dihydrofuryl, piperazinyl, lower alkanoyl-piperazinyl (including formylpiperazinyl), optionally substituted heteroaryl and optionally substituted heteroaryloxy,

f) optionally substituted alkanoylamino, optionally substituted alkenoylamino, optionally substituted alkynoylamino, optionally substituted mono- or di-alkylaminocarbonylamino, optionally substituted alkoxycarbonylamino, optionally substituted mono- or di-alkylaminosulfonylamino, optionally substituted mono- or di-alkylaminosulfoxylamino,

g) N-(optionally substituted alkyl)-N-(optionally substituted lower alkanoyl)-amino,

h) N-(optionally substituted alkyl)-N-(optionally substituted alkoxycarbonyl)-amino,

i) N-(optionally substituted alkyl)-N-(N',N'-mono- or di-[optionally substituted alkyl]-aminocarbonyl)-amino,

j) $N=C(R_7, R_8)$ wherein R_7 is hydrogen, alkyl, amino, mono- or di-alkylamino and R_8 is amino, mono- or dialkylamino or wherein R_7 and R_8 , together with the binding carbon atom, form a saturated five- to seven-membered ring with 0, 1 or 2 ring nitrogen atoms that is optionally substituted by one or more substituents, preferably 1 to 3 substituents, especially lower alkyl,

k) an optionally substituted 4 to 7 membered heterocyclyl group containing one or two nitrogen, oxygen or sulfur atoms but at least one nitrogen atom through which the heterocyclyl ring is attached to the remainder of the molecule;

R_2 is hydrogen, C_1 - C_4 -alkyl, C_3 - C_4 -alkenyl, C_3 - C_4 -alkynyl, $-CH_2OR_{16}$, $-CH_2SR_{16}$,
 5 $-C(O)R_{16}$, $-C(O)OR_{16}$, SO_2R_{16} , SOR_{16} or SR_{16}

where R_{16} is C_1 - C_8 -alkyl, C_1 - C_8 -alkoxyalkyl, C_1 - C_8 haloalkyl or phenyl C_1 - C_2 -alkyl, wherein the phenyl may be substituted by up to three groups selected from halo or C_1 - C_4 -alkyl;

R_3 is hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 haloalkoxy; hydroxy,
 10 mercapto, cyano or C_1 - C_4 alkoxy;

R_4 , R_5 and R_6 are independently of each other hydrogen, halogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted alkoxy, optionally substituted acyloxy, optionally substituted alkenyloxy, optionally substituted alkynyloxy, optionally substituted aryloxy, optionally substituted heteroaryloxy, optionally substituted acylamino, optionally substituted thioalkyl,
 15 $COOR_{17}$, $CONR_{18}R_{19}$, $S(O)_kR_{20}$, $SO_2NR_{21}R_{22}$, $NR_{23}R_{24}$, $NR_{25}SO_2R_{26}$, NO_2 , CN , $C(=O)R_{27}$, $C(=NOR_{28})R_{29}$ or R_4 and R_5 or R_5 and R_6 together form a five to six – membered saturated or unsaturated carbocyclic ring system or ring system or a five
 20 to six –membered heteroaromatic or heterocyclic ring system which is optionally substituted and contains one to three heteroatoms selected from O, N or S;

k is 0, 1 or 2 and

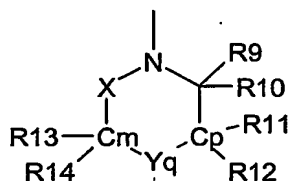
R_{17} , R_{18} , R_{19} , R_{20} , R_{21} , R_{22} , R_{23} , R_{24} , R_{25} , R_{26} , R_{27} , R_{28} and R_{29} are independently H or optionally substituted alkyl or optionally substituted aryl; or a salt thereof
 25 provided that when A is CH, A' is N and R_3 , R_5 and R_6 are all H then R_4 is not hydrogen, halogen, alkoxy, haloalkyl, haloalkoxy or alkyl; and that when A is CH and A' is N then R_1 is not an optionally substituted N-linked 5- or 6- membered heterocyclyl group containing two adjacent nitrogen atoms as the only heteratoms in the heterocyclic ring.

30

2. A method according to claim 1 wherein A is CH, A' is N and j is 0.

3. A method according to claim 1 or claim 2 wherein R_1 is

- a) hydrazino substituted by one to three substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₄ alkoxyC₁₋₄ alkyl and C₁₋₄ acyl;
- b) cyclohexyl-amino substituted by amino;
- 5 c) piperazinyl optionally substituted by one or two C₁₋₄ alkyl, acyl or C₁₋₄ aminoalkyl groups;
- d) morpholinyl optionally substituted by one or two C₁₋₄ alkyl, acyl or C₁₋₄ aminoalkyl groups; mono- or di-(lower alkyl)-amino;
- e) mono- or di-(lower alkyl)-amino where the lower alkyl moieties are independently substituted by N-mono- or N,N-di-(lower alkyl)amino, (lower alkoxy)-lower alkoxy, caboxy-lower alkyl, lower alkoxy, hydroxy, hydroxy-lower alkylamino, lower
- 10 alkylamino-carbonylamino or lower alkoxycarbonylamino or C₁₋₈ alkoximino;
- j) N=CR₇R₈ where R₇ and R₈ together with the carbon atom to which they are attached form a five- to seven-membered ring with 2 ring nitrogen atoms adjacent to
- 15 the carbon atom double bonded to the external N atom;
- k) the moiety



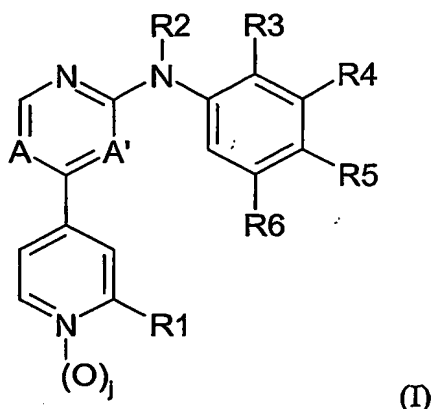
wherein

- 'the sum of (m + p) together is 0, 1, 2 or 3;
- 20 q is 0 or 1, and the sum of (m + p + q) together is 1, 2, 3 or 4;
- R₉ is hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl or C₁-C₆-alkoxy;
- R₁₀ is hydrogen, C₁-C₆-alkyl, C₃-C₄-alkenyl or C₃-C₄-alkynyl;
- each of R₁₁, R₁₂, R₁₃ and R₁₄ is, independently of the others, hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, hydroxy-C₁-C₆-alkyl or C₁-C₆-alkoxy-C₁-C₆-alkyl, or the ring
- 25 members CR₁₃R₁₄ or CR₁₁R₁₂ or CR₉R₁₀ are independently of each other a carbonyl group (C=O) or a group C=S;
- X is C=O, C=S, S=O or O=S=O;
- Y is O, S, C=O, CH₂, -N(R₁₅)-, -O-N(R₁₅)-, -N(R₁₅)-O- or -NH-; and
- R₁₅ is C₁-C₈-alkyl, C₁-C₈-alkoxyalkyl, C₁-C₈ haloalkyl or phenylC₁-C₂-alkyl wherein
- 30 the phenyl may be substituted by up to three groups selected from halo or C₁-C₄-

alkyl.

4. A method according to any preceding claim wherein R_2 is hydrogen, C_3 - C_4 -alkenyl, C_3 - C_4 -alkynyl, $-CH_2OR_{16}$, CH_2SR_{16} , $-C(O)R_{16}$, $-C(O)OR_{16}$, SOR_{16} or SR_{16} where
5 R_{16} is as defined in claim 1.
5. A method according to any preceding claim wherein R_3 is H, OH, halogen, methyl, ethyl, methoxy, ethoxy or CN.
- 10 6. A method according to any preceding claim wherein R_4 is hydrogen, halogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted alkenyloxy, optionally substituted alkynyloxy, optionally substituted thioalkyl optionally substituted aryl, $COOR_{17}$, $CONR_{18}R_{19}$, $S(O)_kR_{20}$, $SO_2NR_{21}R_{22}$ or $NR_{23}R_{24}$ where R_{17} , R_{18} , R_{19} , R_{20} ,
15 R_{21} , R_{22} , R_{23} and R_{24} are H or C_{1-4} alkyl.
7. A method according to any preceding claim wherein R_5 is hydrogen, halogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted alkenyloxy, optionally
20 substituted alkynyloxy, optionally substituted thioalkyl optionally substituted aryl, $COOR_{41}$, $CONR_{42}R_{43}$, $S(O)_qR_{44}$, $SO_2NR_{45}R_{46}$ or $NR_{45a}R_{46a}$ where R_{41} , R_{42} , R_{43} , R_{44} , R_{45} , R_{46} , R_{45a} , R_{46a} , are independently H or optionally substituted alkyl.
8. A method according to any preceding claim wherein R_6 is hydrogen, C_1 - C_6 alkyl or
25 C_1 - C_6 haloalkyl; halogen, hydroxy, mercapto, cyano, C_1 - C_6 alkoxy, C_1 - C_6 alkylthio, amino, C_1 - C_6 alkylamino, di(C_1 - C_6 alkyl)-amino, $-O-CO-R_{54}$, $-NH-CO-R_{53}$, where R_{53} and R_{54} , are independently H or optionally substituted alkyl.

9. A compound of formula (I)



wherein

5 A and A' are both N or A and A' are both CH or A is CH and A' is N;

j is 0 or 1

R₁ is

- a) hydrazino, that is unsubstituted or one- to threefold substituted by optionally substituted alkyl and/or optionally substituted acyl,
- 10 b) cyclohexylamino, tetrahydro-4H-pyran-4-amino, pyrrolidine-3-amino, 2- or 3-tetrahydro-furylamino, all optionally substituted by amino, hydroxy, alkoxy, alkyl or alkoxyalkyl,
- c) piperazinyl that is optionally substituted by amino, amino-lower alkyl, hydroxy, alkoxy, alkyl or alkoxyalkyl,
- 15 d) morpholinyl that is optionally substituted by amino, amino-lower alkyl, hydroxy, alkoxy, alkyl or alkoxyalkyl,
- e) amino or mono- or di-(lower alkyl)amino wherein the lower alkyl moieties are unsubstituted or substituted by one or more (preferably 1 to 3, especially 1 or 2) substituents independently selected from the group consisting of unsubstituted
- 20 amino, N-mono- or N,N-di-(lower alkyl)-amino, (lower alkoxy)-lower alk-oxy, lower alkoxycarbonylamino, hydroxy-lower alkoxycarbonylamino, lower alkoxy-lower alkoxycarbonylamino, morpholinyl, hydroxy-lower alkylamino, cyano, halogen, oxo, hydroximino, alkoximino, optionally substituted hydrazono, lower alkenyl, lower alkynyl, guanidyl, lower alkanoylamino, hydroxy-lower
- 25 alkanoylamino, lower alkoxy-lower alkanoylamino, halo-lower alkanoylamino, lower alkylaminocarbonylamino, hydroxy-lower alkylaminocarbonylamino, lower

alkoxy-lower alkylaminocarbonylamino, amidino, di-lower-alkylamino-cyclohexyl, carboxy, lower alkoxycarbonyl, hydroxy-lower alkoxycarbonyl, lower alkoxy-lower alkoxycarbonyl, lower alkylcarbonyldioxy (= lower alkoxycarbonyloxy), hydroxy-lower alkoxycarbonyloxy, lower alkoxy-lower alkoxycarbonyloxy, lower alkanoyloxy, halo-lower alkanoyloxy, hydroxy-lower alkanoyloxy, lower alkoxy-lower alkanoyloxy, carbamoyl, N-mono- or N,N-di-lower alkylcarbamoyl, N-(hydroxy-lower alkyl)carbamoyl, N-lower alkyl-N-hydroxy-lower alkyl-carbamoyl, N,N-di-(hydroxy-lower alkyl)-carbamoyl, N-hydroxy-carbamoyl, hydroxy, lower alkoxy, lower alkenyloxy, lower alkinyloxy, lower haloalkoxy, lower alkylthio, lower alkylsulfoxyl, lower alkylsulfonyl, lower alkoxysilyl, 4-tetrahydro-4H-pyranyl, 3-pyrrolidinyl, 2- or 3-tetrahydrofuryl, 2- or 3-dihydrofuryl, piperazinyl, lower alkanoyl-piperazinyl (including formylpiperazinyl), optionally substituted heteroaryl and optionally substituted heteroaryloxy,

f) optionally substituted alkanoylamino, optionally substituted alkenoylamino, optionally substituted alkynoylamino, optionally substituted mono- or di-alkylaminocarbonylamino, optionally substituted alkoxycarbonylamino, optionally substituted mono- or di-alkylaminosulfonylamino, optionally substituted mono- or di-alkylaminosulfoxylamino,

g) N-(optionally substituted alkyl)-N-(optionally substituted lower alkanoyl)-amino,

h) N-(optionally substituted alkyl)-N-(optionally substituted alkoxycarbonyl)-amino,

i) N-(optionally substituted alkyl)-N-(N',N'-mono- or di-[optionally substituted alkyl]-aminocarbonyl)-amino,

j) $N=C(R_7, R_8)$ wherein R_7 is hydrogen, alkyl, amino, mono- or di-alkylamino and R_8 is amino, mono- or dialkylamino or wherein R_7 and R_8 , together with the binding carbon atom, form a saturated five- to seven-membered ring with 0, 1 or 2 ring nitrogen atoms that is optionally substituted by one or more substituents, preferably 1 to 3 substituents, especially lower alkyl,

k) an optionally substituted 4 to 7 membered heterocyclyl group containing one or two nitrogen, oxygen or sulfur atoms but at least one nitrogen atom through which the heterocyclyl ring is attached to the remainder of the molecule;

R_2 is hydrogen, C_1 - C_4 -alkyl, C_3 - C_4 -alkenyl, C_3 - C_4 -alkynyl, $-CH_2OR_{16}$, $-CH_2SR_{16}$, $-C(O)R_{16}$, $-C(O)OR_{16}$, SO_2R_{16} , SOR_{16} or SR_{16} where R_{16} is C_1 - C_8 -alkyl, C_1 - C_8 -alkoxyalkyl, C_1 - C_8 haloalkyl or phenyl C_1 - C_2 -alkyl,

wherein the phenyl may be substituted by up to three groups selected from halo or C₁-C₄-alkyl;

R₃ is hydrogen, halogen, C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄haloalkoxy; hydroxy, mercapto, cyano or C₁-C₄alkoxy;

5 R₄, R₅ and R₆ are independently of each other hydrogen, halogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted alkoxy, optionally substituted acyloxy, optionally substituted alkenyloxy, optionally substituted alkynyloxy, optionally substituted aryloxy, optionally substituted
 10 heteroaryloxy, optionally substituted acylamino, optionally substituted thioalkyl, COOR₁₇, CONR₁₈R₁₉, S(O)_kR₂₀, SO₂NR₂₁R₂₂, NR₂₃R₂₄, NR₂₅SO₂R₂₆, NO₂, CN, C(=O)R₂₇, C(=NOR₂₈)R₂₉ or R₄ and R₅ or R₅ and R₆ together form a five to six – membered saturated or unsaturated carbocyclic ring system or ring system or a five to six –membered heteroaromatic or heterocyclic ring system which is optionally
 15 substituted and contains one to three heteroatoms selected from O, N or S;
 k is 0, 1 or 2 and

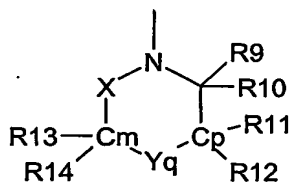
R₁₇, R₁₈, R₁₉, R₂₀, R₂₁, R₂₂, R₂₃, R₂₄, R₂₅, R₂₆, R₂₇, R₂₈ and R₂₉ are independently H or optionally substituted alkyl or optionally substituted aryl; or a salt thereof provided that a) when A is CH, A' is N and R₃, R₅ and R₆ are all H then R₄ is not
 20 hydrogen, halogen, alkoxy, haloalkyl, haloalkoxy or alkyl; b) when A is CH and A' is N then R₁ is not an optionally substituted N-linked 5- or 6- membered heterocyclyl group containing two adjacent nitrogen atoms as the only heteratoms in the heterocyclic ring; c) when A is CH, A' is N and R₄ and R₅ are both H then R₃ is not hydrogen, halogen, lower alkoxy or lower alkyl; and d) when A is N, A' is N
 25 and R₂ is H and one of R₃, R₄, R₅ and R₆ is halogen, nitro, alkoxy, haloalkyl or haloalkoxy then R₁ is other than aminoalkylamino, hydroxyalkylamino, optionally substituted morpholino, optionally substituted piperidino, optionally substituted piperazino, pyridylalkylamino, alkenylamino, optionally substituted phenylamino, pyrrolidinylalkylamino, and piperidinoalkylamino.

30

10. A compound according to claim 9 wherein A is CH and A' is N.

11. A compound according to claim 9 or claim 10 wherein R₁ is

- a) hydrazino substituted by one to three substituents independently selected from the group consisting of C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ hydroxyalkyl, C₁₋₄ alkoxyC₁₋₄ alkyl and C₁₋₄ acyl;
- b) cyclohexyl-amino substituted by amino;
- 5 c) piperazinyl optionally substituted by one or two C₁₋₄ alkyl, acyl or C₁₋₄ aminoalkyl groups;
- d) morpholinyl optionally substituted by one or two C₁₋₄ alkyl, acyl or C₁₋₄ aminoalkyl groups; mono- or di-(lower alkyl)-amino;
- e) mono- or di-(lower alkyl)-amino where the lower alkyl moieties are independently substituted by N-mono- or N,N-di-(lower alkyl)amino, (lower alkoxy)-lower alkoxy, caboxy-lower alkyl, lower alkoxy, hydroxy, hydroxy-lower alkylamino, lower alkylamino-carbonylamino or lower alkoxycarbonylamino or C₁₋₈ alkoximino;
- 10 j) N=CR₇R₈ where R₇ and R₈ together with the carbon atom to which they are attached form a five- to seven-membered ring with 2 ring nitrogen atoms adjacent to the carbon atom double bonded to the external N atom;
- 15 k) the moiety



wherein

- the sum of (m + p) together is 0, 1, 2 or 3;
- 20 q is 0 or 1, and the sum of (m + p + q) together is 1, 2, 3 or 4;
- R₉ is hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl or C₁-C₆-alkoxy;
- R₁₀ is hydrogen, C₁-C₆-alkyl, C₃-C₄-alkenyl or C₃-C₄-alkynyl;
- each of R₁₁, R₁₂, R₁₃ and R₁₄ is, independently of the others, hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, hydroxy-C₁-C₆-alkyl or C₁-C₆-alkoxy-C₁-C₆-alkyl, or the ring
- 25 members CR₁₃R₁₄ or CR₁₁R₁₂ or CR₉R₁₀ are independently of each other a carbonyl group (C=O) or a group C=S;
- X is C=O, C=S, S=O or O=S=O;
- Y is O, S, C=O, CH₂, -N(R₁₅)-, -O-N(R₁₅)-, -N(R₁₅)-O- or -NH-; and
- R₁₅ is C₁-C₈-alkyl, C₁-C₈-alkoxyalkyl, C₁-C₈ haloalkyl or phenylC₁-C₂-alkyl wherein
- 30 the phenyl may be substituted by up to three groups selected from halo or C₁-C₄-

alkyl.

12. A compound according to any any one of claims 9 to 11 wherein R_2 is hydrogen, C_3 - C_4 -alkenyl, C_3 - C_4 -alkynyl, $-CH_2OR_{16}$, CH_2SR_{16} , $-C(O)R_{16}$, $-C(O)OR_{16}$, SOR_{16} or SR_{16} where R_{16} is as defined in claim 1.
13. A compound according to any one of claims 9 to 12 wherein R_3 is H, OH, halogen, methyl, ethyl, methoxy, ethoxy or CN.
14. A compound according to any one of claims 9 to 13 wherein R_4 is hydrogen, halogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted alkenyloxy, optionally substituted alkynyloxy, optionally substituted thioalkyl optionally substituted aryl, $COOR_{17}$, $CONR_{18}R_{19}$, $S(O)_kR_{20}$, $SO_2NR_{21}R_{22}$ or $NR_{23}R_{24}$ where R_{17} , R_{18} , R_{19} , R_{20} , R_{21} , R_{22} , R_{23} and R_{24} are H or C_{1-4} alkyl.
15. A compound according to any one of claims 9 to 14 wherein R_5 is hydrogen, halogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted alkoxy, optionally substituted alkenyloxy, optionally substituted alkynyloxy, optionally substituted thioalkyl optionally substituted aryl, $COOR_{41}$, $CONR_{42}R_{43}$, $S(O)_qR_{44}$, $SO_2NR_{45}R_{46}$ or $NR_{45a}R_{46a}$ where R_{41} , R_{42} , R_{43} , R_{44} , R_{45} , R_{46} , R_{45a} , R_{46a} , are independently H or optionally substituted alkyl.
16. A compound according to any one of claims 9 to 15 wherein R_6 is hydrogen, C_1 - C_6 alkyl or C_1 - C_6 haloalkyl; halogen, hydroxy, mercapto, cyano, C_1 - C_6 alkoxy, C_1 - C_6 alkylthio, amino, C_1 - C_6 alkylamino, di(C_1 - C_6 alkyl)-amino, $-O-CO-R_{54}$, $-NH-CO-R_{53}$, where R_{53} and R_{54} , are independently H or optionally substituted alkyl.
17. A composition for controlling and protecting against phytopathogenic microorganisms, comprising a compound of formula I according to claim 9 as active ingredient together with a suitable carrier.

18. The use of a compound of formula I according to claim 1 in protecting plants against infestation by phytopathogenic microorganisms.
19. A method according to any one of claims 1 to 8, wherein the phytopathogenic
5 microorganisms are fungal organisms.